

KN-92 (hydrochloride)

Catalog No: tcsc1264



Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

1431698-47-3

Formula:

$C_{24}H_{26}Cl_2N_2O_3S$

Pathway:

Neuronal Signaling

Target:

CaMK

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

493.45

Product Description

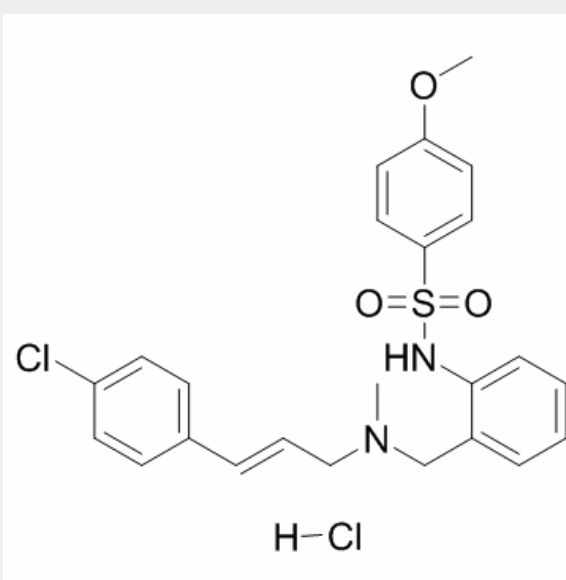
KN-92 is an inactive derivative of KN-93. KN-93 is a selective inhibitor of Ca²⁺/calmodulin-dependent kinase II (CaMKII),

competitively blocking CaM binding to the kinase ($K_i = 370 \text{ nM}$).

IC₅₀ value:

Target:

KN-92 is intended to be used as a control compound in studies designed to elucidate the antagonist activities of KN-93. KN-93 inhibits histamine-induced aminopyrine uptake in parietal cells ($IC_{50} = 300 \text{ nM}$). KN-93 has been used to implicate roles for CaMKII in Ca^{2+} -induced Ca^{2+} release in cardiac myocytes, constitutive phosphorylation of 5-lipoxygenase in 3T3 cells, and Ca^{2+} -dependent activation of HIF-1 α in colon cancer cell.



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